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<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/623,414	DEEM ET AL.	
	Examiner	Art Unit	
	Henry K. Choe	2817	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--  
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 2/6/06.
2. ☐ The allowed claim(s) is/are 5,6,11-13,19-28,30 and 35.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

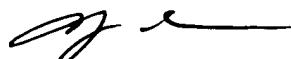
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
|---|--|

  
**HENRY CHOE**  
**PRIMARY EXAMINER**

## **DETAILED ACTION**

### ***Reasons for Allowance***

Claims 5, 6, 11-13, 19-28, 30 and 35 are allowed.

The following is an examiner's statement of reasons for allowance: Regarding claim 5, the closest prior art of record, Cavers (Fig. 1) does not disclose the following limitations: using the closed loop control system after using the open loop control system for a pre-determined period of time during which an input power of the input signal is above a threshold level. Regarding claim 6, the closest prior art of record, Cavers (Fig. 1) does not disclose the following limitations: using the open loop control system to initialize filters in the closed loop control system based on outputs of the open loop control system. Regarding claim 11, the closest prior art of record, Cavers (Fig. 1) does not disclose the following limitations: measuring a second error between the input signal and the feedback signal. Regarding claim 19, the closest prior art of record, Cavers (Fig. 1) does not disclose the following limitations: generating the second signal capable of being used to modify the first characteristic of the input signal using the open loop control routine when the input power is above the threshold level. Regarding claim 20, the closest prior art of record, Cavers (Fig. 1) does not disclose the following limitations: the first control module is capable of determining if the first control module has been using the open loop control routine for a pre-determined period of time during which an input power of the input signal was above a threshold level. Regarding claim 21, the closest prior art of record, Cavers (Fig. 1) does not disclose the following limitations: a calibration module for generating entries for initializing the filters.


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Regarding claim 23, the closest prior art of record, Cavers (Fig. 1) does not disclose at least the following limitations: the second control module is capable of generating a sixth signal capable of being used to modify the second characteristic of the input signal using the closed loop control routine. Regarding claim 30, the closest prior art of record, Cavers (Fig. 1) does not disclose the following limitations: the second control module is capable of receiving a first error signal and a second error signal. Regarding claim 35, the closest prior art of record, Cavers (Fig. 1) does not disclose the following limitations: using the open loop control system to initialize a filter in the closed loop control system based on an output of the open loop control system.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Choe whose telephone number is (571) 272-1760.



**HENRY CHOE**  
**PRIMARY EXAMINER**